PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
455 12TH STREET, S.W.
WASHINGTON, D.C. 20554

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Report No. 489 EXPERIMENTAL ACTIONS

The Commission, by its Office of Engineering and Technology, Experimental Licensing Branch, granted the following experimental applications during the period from 2/1/17 to 2/28/17:

- **AMERICAN TOWER INDOOR DAS LLC WI2XOU 0067-EX-CN-2016**
  New experimental to operate in 3400 – 3600 and 3700 – 3800 MHz
  For LTE testing
  Mobile: Woburn (Middlesex), MA; Cary (Wake), NC; Fletcher (Henderson), NC

- **BLUE ORIGIN WI2XRX 0019-EX-CN-2017**
  New experimental to operate on 450 MHz for research and development company developing commercial space launch vehicle technology.
  Fixed: Van Horn (Culberson), TX

- **BLUE ORIGIN WI2XSC 0039-EX-CN-2017**
  New experimental to operate on 401.20 and 401.80 MHz to conduct flight testing an autonomous rocket propelled space launch vehicle.
  Mobile: Flight 400,000 feet AGL, Van Horn, TX

- **CALIFORNIA POLYTECHNIC STATE UNIVERSITY WI2XNR 0020-EX-CN-2016**
  New experimental to operate on 437 MHz for Cubesat testing
  Fixed & Mobile: San Luis Obispo (San Luis Obispo), CA and Nongeostationary space orbit

- **CARNEGIE MELLON UNIVERSITY WI2XPQ 0076-EX-CN-2016**
  New Experimental to operate in 800 MHz, 900 MHz and 2 GHz bands for military exercises.
  Mobile National Guard Base, Camp Roberts, CA

- **CITY OF SAN DIEGO MARINE BIOLOGY LAB WI2XSL 0260-EX-CN-2016**
  New experimental in 156.025-162.025 MHz for installation of a real-time oceanographic mooring for the City of San Diego's Ocean Monitoring Program.
  Fixed: Pacific Ocean

- **ELTA NORTH AMERICA WI2XQX 0185-EX-CN-2016**
  New experimental to operate on 10 GHz for testing radar equipment
  Fixed: Annapolis Junction (Howard), MD

- **EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, WI2XNQ 0511-EX-PL-2016**
  New experimental to operate on 437 MHz for Cubesat testing
  Fixed & Mobile: Prescott (Yawapai), AZ

- **GENTEX CORPORATION WI2XSD 0174-EX-CN-2016**
  New experimental to operate in 902-904 MHz and 909.75-921.75 MHz for testing an integrated toll module.
  Mobile: Nationwide

- **GEORGIA INSTITUTE OF TECHNOLOGY WI2XLG 0311-EX-PL-2016**
  New experimental to operate on 437.15 MHz and 437.475 MHz for two cubesats to improve the relative and absolute positioning capabilities of nanosatellites.
  Fixed & Mobile: Atlanta (Fulton), GA and Nongeostationary space orbit

- **LIQUID ROBOTICS INC. WI2XRK 0306-EX-CN-2016**
  New experimental to operate in the in 2400 MHz band to support temporary integration testing.
  Mobile: Kawaihae, HI and Coastal Waters

- **LIQUID ROBOTICS INC. WI2XRN 0308-EX-CN-2016**
  New experimental to operate in 156.025 - 162.025 MHz to support temporary integration testing of AIS transponders.
  Mobile: Waters West of Kona coast near Kawaihae Harbor

- **LIQUID ROBOTICS INC. WI2XRY 0309-EX-CN-2016**
  New experimental to operate in 1626.50 - 1660.50 MHz to support temporary integration testing INMARSAT BGAN system.
  Mobile: The U.S. and Territories and Coastal Waters

- **LOCKHEED MARTIN CORPORATION WI2XRJ 0252-EX-CN-2016**
  New experimental to operate on 2364 and 2384 MHz to conduct tests and research.
  Fixed & Mobile: Greenville (Greenville), SC; Fort Worth (Tarrant), TX; Possum Kingdom Lake (Pinto), TX

- **LOCKHEED MARTIN CORPORATION WI2XSI 0060-EX-CN-2017**
  New experimental to operate in 2405 – 2470 MHz to test and develop equipment.
  Fixed & Mobile: Grand Prairie and Mineral Wells, TX

- **OSU-UNIVERSITY MULTISPECTRAL LABORATORIES WI2XSU 0321-EX-CN-2016**
  New Experimental to operate in 5001 – 5570 and 5650 – 6100 MHz to test radios used outside the US.
  Fixed & Mobile: Chilocco (Kay), OK

- **OSU-UNIVERSITY MULTISPECTRAL LABORATORIES, LLC WI2XSN 0327-EX-CN-2016**
  New experimental to operate in 1805-1850 MHz for testing communication systems.
  Mobile: within the Chilocco campus, Chilocco (Kay), OK

- **PROGRESS RAIL MANUFACTURING CORPORATION WI2XQB 0047-EX-CN-2016**
  New experimental to operate on 1575.42 MHz for testing radionavigation satellite service (RNSS) equipment.
  Fixed: Muncie (Delaware), IN

- **RAYTHEON IDS WI2XSH 0054-EX-CN-2017**
  New experimental to operate in 9550 – 9650 MHz to test prototype radar arrays.
  Mobile: Marlborough, MA

- **RAYTHEON MISSILE SYSTEMS WI2XSM 0073-EX-CN-2017**
  New experimental to operate on 451.45 and 471.00 MHz to test Raveon radios to provide differential GPS Mobile: Oxnard, CA; Inyokern (Kern), CA Airborne ops mostly over ocean under 10000 ft

- **ROW 44, INC. WI2XRS 0168-EX-CN-2016**
  New experimental to operate in 14050 – 14470 MHz to test and evaluate terminal antenna in 14 GHz.
  Mobile Geostationary Space Orbit, and Nationwide Aircraft

- **SPIDERCLOUD WIRELESS, INC WI2XQP 0176-EX-CN-2016**
  New experimental to operate in 5160-5240 MHz and 5735-5840 MHz to test 3G/4G femtocell wireless products.
  Fixed: Milpitas (Santa Clara), CA

- **STANFORD UNIVERSITY DEPARTMENT OF AERONAUTICS AND ASTRONAUTICS WI2XMT 0238-EX-PL-2016**
  New experimental to operate on 436.635 MHz for a cubesat carrying the Ion-Neutral Mass Spectrometer and the Extreme Environment Microsystems Laboratory.
  Fixed & Mobile: Stanford (Santa Clara), CA and Nongeostationary space orbit

- **SUNESYS ENTERPRISE LLC WI2XQK 0092-EX-CN-2016**
  New experimental to operate in 3550-3700 MHz for investigating the coverage area that can be served when deploying 3.5 GHz in different outdoor environments.
  Fixed & Mobile: Pittsburgh (Allegheny), PA

- **UNIVERSITY OF ALASKA - FAIRBANKS WI2XSJ 0210-EX-CN-2016**
  New experimental to operate in 430-450 MHz for ionospheric research
  Fixed: Gakona (Valdez-Cordova), AK

- **VIRGINIA TECH WI2XQA 0248-EX-CN-2016**
  New experimental to operate in 2-25 MHz for ionospheric research.
  Fixed: Blacksburg (Montgomery), VA